WEST Search History



DATE: Wednesday, February 16, 2005

Hide?	Set Nam	e Query	Hit Count
	DB=PC	GPB, USPT, EPAB, JPAB, DWPI; PLUR=YES; OP=ADJ	
	L11	L1 and L10	6
	L10	(xanthan gum or hydroxypropyl methylcelluose and rectal administration)	20927
	L9	(polysaccharide and rectal administration)	1447
	L8	(rectal administration)	18026
口	L7	(xanthan gum or hydroxypropyl methylcelluose and enema)	20904
	L6	(xanthan gum or hydroxypropyl methylcelluose and enema)	20904
	L5	(enema)	7903
	L4	(xanthan gum or hydroxypropyl methylcelluose)	20950
	L3	(liquid enema and polysaccharide)	2
	L2	(polysaccharide)	83011
	DB=US	SPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ	
	L1	(liquid enema)	36

END OF SEARCH HISTORY

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(FILE 'HOME' ENTERED AT 15:44:46 ON 16 FEB 2005)

	FILE 'MEDLI	NE, KOSMET,	HCAPLUS'	ENTERED	AT 15:45:04	ON 16	FEB	2005
L1	8	S LIQUID ENE	MA					
L2	2245	S RECTAL ADM	INISTRAT	ION				
L3	140	S RECTAL DEL	IVERY					
L4	2335	S L2 OR L3						
L5	72410	S POLYSACCHAI	RIDE					
L6	9	S L5 AND L4						
L7	0	S L5 AND L1						
L8	9 :	S (L1 OR L4)	AND L5					
L9	14	S (L1 OR L4)	AND XANT	THAN GUM				
L10	0	S (L1 OR L4)	AND HYDI	ROXYPROPY	LMETHYLCELLU	JLOSE		
L11	4	S (L1 OR L4)	AND HYDE	ROXYPROPY	L METHYLCELI	JULOSI	7	

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NEWS 10 DEC 17 COMPUAB reloaded; updating to resume; current-awareness alerts (SDIs) affected

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NEWS 16 JAN 03 No connect-hour charges in EPFULL during January and February 2005

NEWS 17 JAN 26 CA/CAPLUS - Expanded patent coverage to include the Russian Agency for Patents and Trademarks (ROSPATENT)

NEWS 18 FEB 10 STN Patent Forums to be held in March 2005

NEWS 19 FEB 16 STN User Update to be held in conjunction with the 229th ACS National Meeting on March 13, 2005

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FILE 'HOME' ENTERED AT 15:44:46 ON 16 FEB 2005

=> file medline kosmet hcaplus
COST IN U.S. DOLLARS

COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 0.21 0.21

FILE 'MEDLINE' ENTERED AT 15:45:04 ON 16 FEB 2005

FILE 'KOSMET' ENTERED AT 15:45:04 ON 16 FEB 2005

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=> s liquid enema

8 LIQUID ENEMA

=> s rectal administration

2245 RECTAL ADMINISTRATION

=> s rectal delivery

140 RECTAL DELIVERY L3

=> s L2 or L3

2335 L2 OR L3 T.4

=> s polysaccharide

72410 POLYSACCHARIDE

=> s L5 and L4

L6 9 L5 AND L4

=> d L6 1-9 ibib abs

ANSWER 1 OF 9 MEDLINE on STN

ACCESSION NUMBER: 1999019829 MEDLINE

DOCUMENT NUMBER:

PubMed ID: 9801431

TITLE: Thermally reversible xyloglucan gels as vehicles for rectal

drug delivery.

AUTHOR: Miyazaki S; Suisha F; Kawasaki N; Shirakawa M; Yamatoya K;

Attwood D

CORPORATE SOURCE: Faculty of Pharmaceutical Sciences, Health Science

University of Hokkaido, Ishikari-Tohbetsu, Hokkaido 061-02,

Japan.

SOURCE: Journal of controlled release : official journal of the

Controlled Release Society, (1998 Dec 4) 56 (1-3) 75-83.

Journal code: 8607908. ISSN: 0168-3659.

PUB. COUNTRY:

Netherlands

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199901

ENTRY DATE: Entered STN: 19990115

> Last Updated on STN: 19990115 Entered Medline: 19990105

AB The aim of this study was to investigate the potential application of thermoreversible gels formed by a xyloglucan polysaccharide derived from tamarind seed for rectal drug delivery. Xyloglucan that had been partially degraded by beta-galactosidase to eliminate 44% of galactose residues formed gels at concentrations of between 1 to 2% w/w at gelation temperatures decreasing over the range 27 to 22 degreesC with increasing concentration. The in vitro release of indomethacin and diltiazem from the enzyme-degraded xyloglucan gels followed root-time kinetics over a period of 5 h at 37 degreesC; the diffusion coefficients increasing with temperature increase between 10 and 37 degreesC. vitro release of indomethacin from the gels was significantly more sustained than from commercial suppositories. Measurement of plasma levels of indomethacin after rectal administration to rabbits of the gels and commercial suppositories containing an identical drug concentration indicated a broader absorption peak following administration of the gels, and a longer residence time. There was no significant difference in bioavailability of indomethacin when administered by these two vehicles. Morphological studies of rectal

mucosa following a single administration of the gels showed no evidence of tissue damage. The results of this study suggest the potential of the enzyme-degraded xyloglucan gels as vehicles for rectal delivery of drugs.

L6 ANSWER 2 OF 9 MEDLINE ON STN ACCESSION NUMBER: 95230506 MEDLINE DOCUMENT NUMBER: PubMed ID: 7714736

TITLE: Modification of rectal absorption of morphine from

hollow-type suppositories with a combination of

alpha-cyclodextrin and viscosity-enhancing

polysaccharide.

AUTHOR: Uekama K; Kondo T; Nakamura K; Irie T; Arakawa K; Shibuya

M; Tanaka J

CORPORATE SOURCE: Faculty of Pharmaceutical Sciences, Kumamoto University,

Japan.

SOURCE: Journal of pharmaceutical sciences, (1995 Jan) 84 (1)

15-20.

Journal code: 2985195R. ISSN: 0022-3549.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199505

ENTRY DATE: Entered STN: 19950524

Last Updated on STN: 19950524 Entered Medline: 19950518

AB An attempt was made to optimize the rectal delivery of morphine, using cyclodextrins as an absorption enhancer and polysaccharides as a swelling hydrogel in Witepsol H-15 hollow-type suppositories, and this was tested in rabbits. alpha- and beta-cyclodextrins enhanced the rate and extent of bioavailability, the former being more effective; gamma-cyclodextrin decreased the absorption of morphine. The in-vitro membrane permeation studies using excised rectal sacs revealed that alpha-cyclodextrin enhanced the permeation of morphine through the rectal membranes. In contrast, viscous polysaccharides such as xanthan gum retarded the plasma morphine levels after the rectal administration, reflecting in-vitro slow release characteristics. A combination of alpha-cyclodextrin and xanthan gum produced sustained plasma profiles of morphine along with an increased rectal bioavailability (more than 4 times). From the observation of the distribution behavior of suppositories in rabbit rectum and colon after the rectal administration, xanthan gum

was found to prevent the upward spread of the drug. Gross and microscopic observations suggested that this preparation was less irritating to the rectal mucosa.

L6 ANSWER 3 OF 9 MEDLINE ON STN ACCESSION NUMBER: 64081527 MEDLINE DOCUMENT NUMBER: PubMed ID: 14123778

TITLE: [CHANGES IN FIBRINOLYSIS CAUSED BY PROLONGED INTRAVENOUS

AND RECTAL ADMINISTRATION OF AN ACID

POLYSACCHARIDE].

MODIFICAZIONI DELLA FIBRINOLISI DA SOMMINISTRAZIONE

PROLUNGATA DI UN POLISACCARIDE ACIDO PER VIA ENDOVENOSA E

RETTALE.

AUTHOR: GIBELLI A; DELUTTEROTTI A; FRANDOLI G

SOURCE: Giornale di gerontologia, (1963 Dec) 11 1319-24.

Journal code: 0375343. ISSN: 0017-0305.

PUB. COUNTRY: Italy

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: Italian
FILE SEGMENT: OLDMEDLINE
ENTRY MONTH: 199612

ENTRY DATE:

Entered STN: 19990716

Last Updated on STN: 19990716 Entered Medline: 19961201

ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2000:314493 HCAPLUS

DOCUMENT NUMBER:

132:318039

TITLE:

Methods and compositions for the prevention of

tolerance to medications

INVENTOR(S):

Ahmed, Tahir

PATENT ASSIGNEE(S):

Baker Norton Pharmaceuticals, Inc., USA

SOURCE:

PCT Int. Appl., 27 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	PATENT NO.						KIND DATE				APPLICATION NO.						DATE			
WO	WO 2000025723 WO 2000025723				A2 20000511			1							 9991	013				
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		RU,	ТJ,	TM																
	RW:	GH,	GM,	KE,	LS,	MW,	SD,	SL,	SZ,	TZ	, UG,	ZW,	ΑT,	BE,	CH,	CY,	DE,			
		DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU	, MC,	NL,	PT,	SE,	BF,	ВJ,	CF,			
		CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE	, SN,	TD,	TG							
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	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IT,	LI,	LU,	ΝL,	SE,	MC,	PT,			
		ΙE,			LV,		RO													
BR	9915	818			Α		2002	0618]	BR	1999-	1581	В		1	9991	013			
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RU	2226	103			C2		2004	0327]	RU :	2001-	1145	22		1	9991	013			
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EP	1462	148			A2		2004	0929	,]	EP :	2004-	1447	1		1	9991	013			
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AT	2776	21			E		2004	1015	Ĭ	TA	1999- 1999-	9713	00		1	9991	013			
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z_{A}	2001	0033	75		Α		2003	0206	!	ZA :	2001-	3375			2	0010	425			
NO	2001	0020	97		Α		2001	0615	1	NO :	2001-	2097			2	0010	427			
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methods of using the same for preventing tolerance to bronchodilators. More specifically, the present invention pertains to the identification of compns. and methods which are capable of preventing tolerance to β 2-adrenergic agonists. The methods and compns. according to the invention are also useful as anal. tools for functional studies and as combination therapeutic tools. The method comprises the administration of therapeutically effective amts. of the bronchodilator and of an effector. The effector includes polysaccharides, preferably a low-mol. weight heparin and ultra-low mol. weight heparin.

L6 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:233808 HCAPLUS

DOCUMENT NUMBER: 130:272024

TITLE: Pharmaceutical composition for the treatment of

inflammatory bowel diseases

INVENTOR(S):
Sachetto, Jean-Pierre; Sandborn, William Jeffery;

Tremaine, William John

PATENT ASSIGNEE(S): Medeva Europe Limited, UK

SOURCE: PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

P/	PATENT NO.			KIND DATE			APPLICATION NO.						DATE					
WC	WO 9916454		A1 19990408		WO 1998-GB2899					19980925								
	W:	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	ВG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,	
		DK,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	ΙL,	IS,	JP,	KE,	
		KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	
		MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	
		TT,	UA,	UG,	US,	UZ,	VN,	YU,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	\mathbf{TM}
	RW:	GH,	GM,	KE,	LS,	MW,	SD,	SZ,	UG,	ZW,	AT,	BE,	CH,	CY,	DE,	DK,	ES,	
	•	FI,	FR,	GB,	GR,	ΙE,	ΙT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	
		CM,	GΑ,	GN,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG							
C	4 2304	948			AA		1999	0408	1	CA 1:	998-	2304	948		19	9980	925	
JA	J 9891	780			A1		1999	0423		AU 1	998-	9178	0		19	9980	925	
JA	J 7585	01			B2		2003	0320										
EI	2 1017	404			A1		2000	0712		EP 1	998-	9441	15		19	9980	925	
EI	2 1017	404			B1		2004	0623										
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙT,	LI,	NL,	SE,	PT,	ΙE,	FI	
JI	2001						2001	1009		JP 2	000-	51358	88		19	9980	925	
ΑT	2697	10			E		2004	0715		AT 1	998-	9441	15		19	9980	925	
PRIORIT	TY API	PLN.	INFO	.:					•	GB 1	997-	2059	0	7	A 19	9970	926	
									(GB 19	997-	25346	5	7	A 19	9971	128	
									1	WO 19	998-0	GB289	99	1	W 19	980	925	

AB A polysaccharide selected from xanthan gum and HPMC is used for the treatment or prophylaxis of inflammatory bowel disease, especially Crohn's disease, left-sided ulcerative colitis or pouchitis. The polysaccharide is delivered by enteric-coated dosage forms or enema compns. A clear viscous enema contained HPMC 50, methylparaben 2, propylparaben 0.4, and purified water 947.6 g.

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:705275 HCAPLUS

DOCUMENT NUMBER: 130:144056

TITLE: Thermally reversible xyloglucan gels as vehicles for

rectal drug delivery

AUTHOR(S): Miyazaki, Shozo; Suisha, Fumie; Kawasaki, Naoko;

Shirakawa, Mayumi; Yamatoya, Kazuhiko; Attwood, David

CORPORATE SOURCE: Faculty of Pharmaceutical Sciences, Health Science

University of Hokkaido, Ishikari-Tohbetsu, Hokkaido,

061-02, Japan

SOURCE: Journal of Controlled Release (1998), 56(1-3), 75-83

CODEN: JCREEC; ISSN: 0168-3659

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal LANGUAGE: English

AB The aim of this study was to investigate the potential application of thermo reversible gels formed by a xyloglucan polysaccharide

derived from tamarind seed for rectal drug delivery. Xyloglucan that had been partially degraded by β -galactosidase to eliminate 44% of galactose residues formed gels at concns. of between 1 to 2% weight/weight at gelation temps. decreasing over the range 27 to 22° with increasing concentration The in vitro release of indomethacin and diltiazem from the enzyme-degraded xyloglucan gels followed root-time kinetics over a period of 5 h at 37°; the diffusion coeffs. increasing with temperature increase between 10 and 37°. The in vitro release of indomethacin from the gels was significantly more sustained than from com. suppositories. Measurement of plasma levels of indomethacin after rectal administration to rabbits of the gels and com. suppositories containing an identical drug concentration indicated a broader absorption peak following administration of the gels, and a longer residence time. was no significant difference in bioavailability of indomethacin when administered by these two vehicles. Morphol. studies of rectal mucosa following a single administration of the gels showed no evidence of tissue damage. The results of this study suggest the potential of the enzyme-degraded xyloglucan gels as vehicles for rectal delivery of drugs.

REFERENCE COUNT:

22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1995:264636 HCAPLUS

DOCUMENT NUMBER:

122:38692

TITLE:

Modification of Rectal Absorption of Morphine from Hollow-Type Suppositories with a Combination of

 $\alpha\text{-Cyclodextrin}$ and Viscosity-Enhancing

Polysaccharide

AUTHOR (S):

Uekama, Kaneto; Kondo, Takashi; Nakamura, Kiyotomo; Irie, Tetsumi; Arakawa, Katsumasa; Shibuya, Masaoki;

Tanaka, Joji

CORPORATE SOURCE:

Faculty of Pharmaceutical Sciences, Kumamoto

University, Kumamoto, 862, Japan

SOURCE:

Journal of Pharmaceutical Sciences (1995), 84(1),

15-20

CODEN: JPMSAE; ISSN: 0022-3549

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal LANGUAGE: English

An attempt was made to optimize the rectal delivery of morphine, using cyclodextrins as an absorption enhancer and polysaccharides as a swelling hydrogel in Witepsol H-15 hollow-type suppositories, and this was tested in rabbits. α - And β -cyclodextrins enhanced the rate and extent of bioavailability, the former being more effective; γ -cyclodextrin decreased the absorption of morphine. The in-vitro membrane permeation studies using excised rectal sacs revealed that $\alpha\text{-cyclodextrin}$ enhanced the permeation of morphine through the rectal membranes. In contrast, viscous polysaccharides such as xanthan gum retarded the plasma morphine levels after the rectal administration, reflecting in-vitro show release characteristics. A combination of α -cyclodextrin and xanthan gum produced sustained plasma profiles of morphine along with an increased rectal bioavailability (more than 4 times). From the observation of the distribution behavior of suppositories in rabbit rectum and colon after the rectal administration, xanthan gum was found to prevent the upward spread of the drug. Gross and microscopic observations suggested that this preparation was less irritating to the rectal mucosa.

ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:491480 HCAPLUS

DOCUMENT NUMBER:

121:91480

TITLE:

Optimized rectal absorption of morphine from

hollow-type suppository by cyclodextrins and

viscosity-enhancing polysaccharides

AUTHOR (S): Arakawa, K.; Shibuya, M.; Tanaka, J.; Tobino, S.;

Ikeda, K.; Kondo, T.; Nakamura, K.; Irie, T.; Uekama,

CORPORATE SOURCE:

SOURCE:

Res. Lab., Torii and Co. Ltd., Ichikawa, 272, Japan Minutes Int. Symp. Cyclodextrins, 6th (1992), 551-4.

Editor(s): Hedges, Allan R. Ed. Sante: Paris, Fr.

CODEN: 60BCAL

DOCUMENT TYPE:

Conference

English LANGUAGE:

α-Cyclodextrin increased mucosal membrane permeability to morphine, and thus, enhanced the rate and extent of rectal bioavailability of the opioid from hollow-type oleaginous suppository in rabbits. Viscous polysaccharides such as xanthan qum sustained the plasma morphine levels after the rectal administration of morphine in suppository in rabbits, reflecting the in-vitro slow release characteristics. A combination of α -cyclodextrin as an absorption enhancer and xanthan gum as a swelling hydrogel realized a sustained

plasma profile of morphine along with the increased rectal absorptivity of morphine.

ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1974:433914 HCAPLUS

DOCUMENT NUMBER:

81:33914

TITLE:

Absorption of dextran polysaccharide by

mucosa of the large intestine

AUTHOR (S):

Maslakov, D. A.; Turevskii, A. A.; Lagodskii, Ya. V.;

Shalanda, T. I.

CORPORATE SOURCE:

Grodn. Med. Inst., Grodno, USSR

SOURCE:

Doklady Akademii Nauk BSSR (1974), 18(1), 87-9

CODEN: DBLRAC; ISSN: 0002-354X

DOCUMENT TYPE:

LANGUAGE:

Journal Russian

Dextran [9004-53-9] was detected in the mucosa of the large intestine AB within 8 hr after its rectal administration to rabbits or rats. The polysaccharide, in the form of round granules, was mainly found in the macrophages, capillaries, and connective tissue.

=> s L5 and L1

0 L5 AND L1

=> s (L1 or L4) and L5

9 (L1 OR L4) AND L5

=> s (L1 or L4) and xanthan gum

14 (L1 OR L4) AND XANTHAN GUM

=> s (L1 or L4) and hydroxypropylmethylcellulose

0 (L1 OR L4) AND HYDROXYPROPYLMETHYLCELLULOSE

=> s (L1 or L4) and hydroxypropyl methylcellulose

4 (L1 OR L4) AND HYDROXYPROPYL METHYLCELLULOSE

=> d 19 1-14 ibib abs

ANSWER 1 OF 14

MEDLINE on STN

ACCESSION NUMBER:

97002983 MEDLINE PubMed ID: 8850322

DOCUMENT NUMBER: TITLE:

Combination effects of alpha-cyclodextrin and

xanthan gum on rectal absorption and

metabolism of morphine from hollow-type suppositories in

rabbits.

AUTHOR: Kondo T; Irie T; Uekama K

CORPORATE SOURCE: Faculty of Pharmaceutical Sciences, Kumamoto University,

Japan.

SOURCE: Biological & pharmaceutical bulletin, (1996 Feb) 19 (2)

280-6.

Journal code: 9311984. ISSN: 0918-6158.

PUB. COUNTRY: Japan

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199612

ENTRY DATE: Entered STN: 19970128

Last Updated on STN: 19970128 Entered Medline: 19961210

AB Pharmacokinetics of morphine and its glucuronides in plasma were studied after rectal administration of hollow-type oleaginous suppositories containing kneading mixtures of morphine hydrochloride, alpha-cyclodextrin, and/or xanthan gum in rabbits. combination with xanthan gum, alpha-cyclodextrin reduced the first-pass metabolism of morphine in the rectal mucosa and by the liver and improved the apparent rectal bioavailability of the opioid about 4 fold. In vitro permeation studies using an isolated rectal mucosal preparation of rabbits revealed that alpha-cyclodextrin increased the transepithelial conductance and facilitated the transport of morphine through the rectal mucosa. Furthermore, alpha-cyclodextrin facilitated its own mucosal permeation and reduced the glucuronidation of morphine during the passage through the rectal mucosa, probably through restricting the formation of a catalytic complex of morphine with glucuronyltransferases, rather than because of the enzyme saturation. present data suggest that alpha-cyclodextrin in combination with

xanthan gum is particularly effective in improving the rectal bioavailability of morphine from hollow-type suppositories.

L9 ANSWER 2 OF 14 MEDLINE ON STN ACCESSION NUMBER: 95230506 MEDLINE DOCUMENT NUMBER: PubMed ID: 7714736

TITLE: Modification of rectal absorption of morphine from

hollow-type suppositories with a combination of

alpha-cyclodextrin and viscosity-enhancing polysaccharide. Uekama K; Kondo T; Nakamura K; Irie T; Arakawa K; Shibuya

M; Tanaka J

CORPORATE SOURCE: Faculty of Pharmaceutical Sciences, Kumamoto University,

Japan.

SOURCE: Journal of pharmaceutical sciences, (1995 Jan) 84 (1)

15-20.

Journal code: 2985195R. ISSN: 0022-3549.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

AUTHOR:

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199505

ENTRY DATE: Entered STN: 19950524

Last Updated on STN: 19950524 Entered Medline: 19950518

AB An attempt was made to optimize the rectal delivery of morphine, using cyclodextrins as an absorption enhancer and polysaccharides as a swelling hydrogel in Witepsol H-15 hollow-type suppositories, and this was tested in rabbits. alpha- and beta-cyclodextrins enhanced the rate and extent of bioavailability, the former being more effective; gamma-cyclodextrin decreased the absorption of morphine. The in-vitro membrane permeation studies using excised rectal sacs revealed that alpha-cyclodextrin enhanced the permeation of morphine through the rectal membranes. In contrast, viscous polysaccharides such as xanthan gum retarded the

plasma morphine levels after the rectal administration , reflecting in-vitro slow release characteristics. A combination of alpha-cyclodextrin and xanthan gum produced sustained plasma profiles of morphine along with an increased rectal bioavailability (more than 4 times). From the observation of the distribution behavior of suppositories in rabbit rectum and colon after the rectal administration, xanthan gum was found to prevent the upward spread of the drug. Gross and microscopic observations suggested that this preparation was less irritating to the rectal mucosa.

MEDLINE on STN ANSWER 3 OF 14 ACCESSION NUMBER: 93364371 MEDLINE DOCUMENT NUMBER:

PubMed ID: 8395281

TITLE:

Investigation on rectal absorption of indomethacin from sustained-release hydrogel suppositories prepared with

water-soluble dietary fibers, xanthan gum

and locust bean gum.

AUTHOR: Watanabe K; Yakou S; Takayama K; Machida Y; Isowa K; Nagai

CORPORATE SOURCE: Hospital Pharmacy, Tokyo Women's Medical College Daini

Hospital, Japan.

Biological & pharmaceutical bulletin, (1993 Apr) 16 (4) SOURCE:

391-4.

Journal code: 9311984. ISSN: 0918-6158.

PUB. COUNTRY:

Japan

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199309

ENTRY DATE:

Entered STN: 19931015

Last Updated on STN: 19931015 Entered Medline: 19930927

AB Sustained-release hydrogel suppositories prepared with water-soluble dietary fibers, xanthan gum and locust bean gum, were evaluated as a vehicle for rectal administration of indomethacin (IMC) in rabbits. The drug plasma levels were compared with those after rectal administration of commercial suppositories. When the commercial suppositories were given to rabbits, the plasma concentration reached the maximum level at 30 min after administration followed by a quick reduction, while no sharp peak of plasma levels was seen with the hydrogel suppositories. In particular, the plasma levels observed with the hydrogel suppositories of 1% (w/v) gum concentration were sustained much longer than those after dosing with the commercial suppositories; the mean residence times had higher values without a decrease in the area under the plasma concentration vs. time curves. Histopathological study showed good biological safety of the hydrogel suppositories to the rectal mucosa. These results suggested that the IMC hydrogel suppositories prepared with xanthan gum and locust bean gum were a practical rectal preparation with prolonged action and reduced side effects.

ANSWER 4 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

1999:233808 HCAPLUS ACCESSION NUMBER:

TITLE:

130:272024

DOCUMENT NUMBER:

Pharmaceutical composition for the treatment of

inflammatory bowel diseases

INVENTOR(S):

Sachetto, Jean-Pierre; Sandborn, William Jeffery;

Tremaine, William John

PATENT ASSIGNEE(S):

Medeva Europe Limited, UK PCT Int. Appl., 29 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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PATENT NO.
                       KIND DATE
                                       APPLICATION NO.
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                       - - - -
                                       -----
                            -----
                       A1 19990408 WO 1998-GB2899 19980925
        W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
            DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE,
            KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW,
            MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,
            TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ,
        RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
            FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
            CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
    CA 2304948
                       AA
                           19990408 CA 1998-2304948
                                                              19980925
    AU 9891780
                       A1
                             19990423
                                       AU 1998-91780
                                                              19980925
    AU 758501
                       В2
                             20030320
    EP 1017404
                                       EP 1998-944115
                       A1
                             20000712
                                                              19980925
    EP 1017404
                       B1
                             20040623
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI
    JP 2001517708 T2 20011009 JP 2000-513588 19980925
                       E
                                        AT 1998-944115
    AT 269710
                             20040715
                                                              19980925
                                        GB 1997-20590
PRIORITY APPLN. INFO.:
                                                          A 19970926
                                                          A 19971128
                                        GB 1997-25346
                                                          W 19980925
                                        WO 1998-GB2899
    A polysaccharide selected from xanthan gum and HPMC is
AB
```

used for the treatment or prophylaxis of inflammatory bowel disease, especially Crohn's disease, left-sided ulcerative colitis or pouchitis. The polysaccharide is delivered by enteric-coated dosage forms or enema compns. A clear viscous enema contained HPMC 50, methylparaben 2, propylparaben 0.4, and purified water 947.6 g.

REFERENCE COUNT:

THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 5 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

10

ACCESSION NUMBER:

1996:685356 HCAPLUS

DOCUMENT NUMBER:

125:309070

TITLE:

Azathioprine compositions for colonic administration

Sandborn, William J.

INVENTOR(S):
PATENT ASSIGNEE(S):

Mayo Foundation for Medical Education and Research,

USA

SOURCE:

PCT Int. Appl., 16 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.				KIN	D DATE	2	APPLICATION NO. DATE	DATE		
WO	9630	021			A1	1996	1003	WO 1996-US3383 19960312		
	W:	AL,	AM,	ΑT,	AU,	AZ, BB,	BG,	BR, BY, CA, CH, CN, CZ, DE, DK, EE	١,	
								KE, KG, KP, KR, KZ, LK, LR, LS, LT		
		LU,	LV,	MD,	MG,	MK, MN,	MW,	MX, NO, NZ, PL, PT, RO, RU, SD, SE	ί,	
		SG,	SI							
	RW:	KΕ,	LS,	MW,	SD,	SZ, UG,	ΑT,	BE, CH, DE, DK, ES, FI, FR, GB, GR	١,	
		ΙE,	ΙT,	LU,	MC,	NL, PT,	SE,	BF, BJ, CF, CG, CI, CM, GA, GN, ML	,	
US	5691	343			Α	1997	1125	US 1995-413505 19950330)	
CA	2216	728			AA	1996	1003	CA 1996-2216728 19960312		
	9654							AU 1996-54218 19960312		
						1999				
EΡ	8176	34			A1	1998	0114	EP 1996-911292 19960312		
	R:	ΑT,	BE,	CH,	DE,	DK, ES,	FR,	GB, GR, IT, LI, LU, NL, SE, MC, PT	٠,	
		•	•	•	LV,					
CN	1179	719			Α	1998	0422	CN 1996-192873 19960312	:	

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JP 11502842
                         T2
                               19990309
                                           JP 1996-529440
                                                                 19960312
    BR 9607964
                               19991130
                                          BR 1996-7964
                         Α
                                                                 19960312
    CZ 290428
                         В6
                               20020717
                                          CZ 1997-3092
                                                                 19960312
    NO 9704440
                               19970925
                                           NO 1997-4440
                         Α
                                                                 19970925
    NO 2001002930
                               19970925
                                           NO 2001-2930
                                                                 20010613
PRIORITY APPLN. INFO.:
                                           US 1995-413505
                                                              A 19950330
                                           WO 1996-US3383
                                                              W 19960312
```

A method is provided to treat inflammatory bowel disease by topically AB administering to the colon an effective amount of azathioprine (I) or a pharmaceutically acceptable salt thereof, preferably via formulations adapted for delayed-release oral or rectal administration. A hydrophilic rectal foam contained I 2.366, methylparaben 1.4, propylparaben 0.14, xanthan gum 2.0, soya lecithin 2, Carbomer 5, Polysorbate-80 10, Citral 0.25, purified water 948.4 g, butane q.s., and nitrogen q.s.

ANSWER 6 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1996:127306 HCAPLUS

DOCUMENT NUMBER:

124:211801

TITLE:

Combination effects of α -cyclodextrin and

xanthan gum on rectal absorption and

metabolism of morphine from hollow-type suppositories

in rabbits

AUTHOR (S):

PUBLISHER:

CORPORATE SOURCE:

Kondo, Takashi; Irie, Tetsumi; Uekama, Kaneto

Fac. Pharmaceutical Sciences, Kumamoto Univ.,

Kumamoto, 862, Japan

SOURCE:

Biological & Pharmaceutical Bulletin (1996), 19(2),

280-6

CODEN: BPBLEO; ISSN: 0918-6158 Pharmaceutical Society of Japan

DOCUMENT TYPE:

Journal LANGUAGE: English

Pharmacokinetics of morphine and its glucuronides in plasma were studied after rectal administration of hollow-type oleaginous suppositories containing kneading mixts. of morphine hydrochloride, α -cyclodextrin, and/or xanthan gum in rabbits. In combination with xanthan gum, α -cyclodextrin reduced the first-pass metabolism of morphine in the rectal mucosa and by the liver and improved the apparent rectal bioavailability of the opioid about 4-fold. In vitro permeation studies using an isolated rectal mucosal preparation of rabbits revealed that α -cyclodextrin increased the transepithelial conductance and facilitated the transport of morphine through the rectal mucosa. Furthermore, α -cyclodextrin facilitated its own mucosal permeation and reduced the glucuronidation of morphine during the passage through the rectal mucosa, probably through restricting the formation of a catalytic complex of morphine with glucuronyltransferases, rather than because of the enzyme saturation α-Cyclodextrin in combination with xanthan gum is particularly effective in improving the rectal bioavailability of morphine from hollow-type suppositories.

ANSWER 7 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1996:77046 HCAPLUS

DOCUMENT NUMBER:

124:185332

TITLE:

Rectal absorption and mucosal irritation of rectal gels containing buprenorphine hydrochloride prepared

with water-soluble dietary fibers, xanthan

gum and locust bean gum

AUTHOR (S):

Watanabe, Kazunori; Yakou, Shigeru; Takayama, Kozo;

Isowa, Koichi; Nagai, Tsuneji

CORPORATE SOURCE:

Hospital Pharmacy, Tokyo Women's Medical College Daini

Hospital, Nishiogu 2-1-10, Arakawa-ku, Tokyo, 116,

Japan

SOURCE:

Journal of Controlled Release (1996), 38(1), 29-37

CODEN: JCREEC; ISSN: 0168-3659

PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Rectal gels prepared with water-soluble dietary fibers, xanthan gum and locust bean gum, were evaluated as a vehicle for the rectal administration of buprenorphine-HCl (BN-HCl) in

rabbits. The maximum plasma concentration of buprenorphine (BN) gradually decreased

with an increase in the gum concentration. The values of the mean residence time $% \left(1\right) =\left(1\right) +\left(1\right) +\left$

(MRT0-2) increased with increasing gum concentration The absorption of BN from rectal gels containing 0.5, 1 and 2% gum compared with those based upon polyethylene glycol (PEG), was more rapid. In particular, the absorption of BN from rectal gels containing 1% gum was extremely fast without decreasing the areas under the plasma concentration vs. time curves. The bioavailabilities

obtained in rabbits correlated well with the in vitro release rates determined using dialysis tubing. A histopathol. study revealed severe mucosal hyperemia, which was thought to be the main characteristic of rectal irritation induced by PEG-base suppositories. BN-HCl rectal gels prepared with xanthan gum and locust bean gum were practical rectal prepns. with rapid absorption and reduced side effects.

L9 ANSWER 8 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:43020 HCAPLUS

DOCUMENT NUMBER: 124:66662

TITLE: Tocopherol compositions for delivery of biologically

active agents

INVENTOR(S): Sonne, Matte Rydahl PATENT ASSIGNEE(S): A/S Dumex, Den.

SOURCE: PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

						KIND DATE			APPLICATION NO.										
									WO 1995-EP1835										
		W:	AM,	ΑT,	ΑU,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CZ,	DE,	DK,	EE,	ES,	FI,	
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			MG,	MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	ТJ,	
			TM,	TT															
		RW:	KE,	MW,	SD,	SZ,	UG,	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙE,	IT,	
			LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	ML,	MR,	NE,	
			SN,	TD,	TG														
	CA	2189	328			AA		1995	1123		CA 1	995-	2189	328		1	9950	515	
	CA	2189	328			С		2003	0722										
	ΑU	9526	705			A1		1995	1205		AU 1	995-	2670	5		1	9950	515	
	ΑU	6975	40			B2		1998	1008										
	ΕP	7628	96			A1		1997	0319		EP 1	995-	9217	50		1	9950	515	•
	ΕP	7628	96			В1		2002	0904										
		R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙE,	IT,	LI,	LU,	MC,	NL,	PT,	SE
		2232				E		2002	0915		AT 1	995-	9217	50		1	9950	515	
	ES	2178 7628	674			Т3		2003	0101		ES 1	.995-	9217	50		1	9950	515	
								2003									9950	515	
	NO	9604															9961	114	
	FI	9604						1996									9961	115	
	US	6193	985			В1		2001	0227		US 1	997-	8560	54		1	9970	514	
PRIOR	ITY	APP	LN.	INFO	.:						GB 1	994-	9778		A 19940516				
											WO 1	995-	EP18:	35	1	W 1	9950	515	
											US 1	995~	4417	59		B1 1	9950	516	

AB The present invention provides the use of a tocopherol or a derivative thereof as a solvent and/or emulsifier for substantially insol. and sparingly soluble biol. active agents, especially in the manufacture of pharmaceutical compns.

Such

compns. are particularly suitable for transmucosal, and especially intranasal

or

rectal administration, or administration via the oral cavity. An oil-in-water emulsion as a nose drop comprised an oil phase containing diazepam 5, α -tocopherol 59, and vitamin E TPGS 5g and a water phase containing di-Na edetate 0.05, K sorbate 0.20, xanthan gum 0.025, and purified water to 100g.

L9 ANSWER 9 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1995:264636 HCAPLUS

DOCUMENT NUMBER:

122:38692

TITLE:

Modification of Rectal Absorption of Morphine from

Hollow-Type Suppositories with a Combination of

 α -Cyclodextrin and Viscosity-Enhancing

Polysaccharide

AUTHOR(S):

Uekama, Kaneto; Kondo, Takashi; Nakamura, Kiyotomo; Irie, Tetsumi; Arakawa, Katsumasa; Shibuya, Masaoki;

Tanaka, Joji

CORPORATE SOURCE:

Faculty of Pharmaceutical Sciences, Kumamoto

University, Kumamoto, 862, Japan

SOURCE:

Journal of Pharmaceutical Sciences (1995), 84(1),

15-20

CODEN: JPMSAE; ISSN: 0022-3549

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal English

LANGUAGE:

An attempt was made to optimize the rectal delivery of morphine, using cyclodextrins as an absorption enhancer and polysaccharides as a swelling hydrogel in Witepsol H-15 hollow-type suppositories and this was tested in rehits.

suppositories, and this was tested in rabbits. α - And β -cyclodextrins enhanced the rate and extent of bioavailability, the former being more effective; γ -cyclodextrin decreased the absorption of morphine. The in-vitro membrane permeation studies using excised rectal sacs revealed that α -cyclodextrin enhanced the permeation of morphine through the rectal membranes. In contrast, viscous

polysaccharides such as **xanthan gum** retarded the

plasma morphine levels after the rectal administration

, reflecting in-vitro show release characteristics. A combination of α -cyclodextrin and **xanthan gum** produced sustained plasma profiles of morphine along with an increased rectal

bioavailability (more than 4 times). From the observation of the distribution behavior of suppositories in rabbit rectum and colon after the rectal administration, xanthan

gum was found to prevent the upward spread of the drug. Gross and microscopic observations suggested that this preparation was less irritating to the rectal mucosa.

L9 ANSWER 10 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1994:491480 HCAPLUS

DOCUMENT NUMBER:

121:91480

TITLE:

Optimized rectal absorption of morphine from hollow-type suppository by cyclodextrins and

viscosity-enhancing polysaccharides

AUTHOR(S):

Arakawa, K.; Shibuya, M.; Tanaka, J.; Tobino, S.; Ikeda, K.; Kondo, T.; Nakamura, K.; Irie, T.; Uekama,

К.

CORPORATE SOURCE:

SOURCE:

Res. Lab., Torii and Co. Ltd., Ichikawa, 272, Japan Minutes Int. Symp. Cyclodextrins, 6th (1992), 551-4. Editor(s): Hedges, Allan R. Ed. Sante: Paris, Fr.

CODEN: 60BCAL

DOCUMENT TYPE: Conference LANGUAGE: English

AB α -Cyclodextrin increased mucosal membrane permeability to morphine, and thus, enhanced the rate and extent of rectal bioavailability of the opioid from hollow-type oleaginous suppository in rabbits. Viscous polysaccharides such as **xanthan gum** sustained the plasma morphine levels after the **rectal administration** of morphine in suppository in rabbits, reflecting the in-vitro slow release characteristics. A combination of α -cyclodextrin as an absorption enhancer and **xanthan gum** as a swelling hydrogel realized a sustained plasma profile of morphine along with the increased rectal absorptivity of morphine.

L9 ANSWER 11 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1993:525051 HCAPLUS

DOCUMENT NUMBER:

CORPORATE SOURCE:

119:125051

TITLE:

Investigation on rectal absorption of indomethacin from sustained-release hydrogel suppositories prepared

with water-soluble dietary fibers, xanthan

gum and locust bean gum

AUTHOR (S):

Watanabe, Kazunori; Yakou, Shigeru; Takayama, Kozo; Machida, Yoshiharu; Isowa, Koichi; Nagai, Tsuneji Hosp. Pharm., Tokyo Women's Med. Coll., Tokyo, 116,

Japan

SOURCE:

Biological & Pharmaceutical Bulletin (1993), 16(4),

391-4

CODEN: BPBLEO; ISSN: 0918-6158

DOCUMENT TYPE:

Journal English

LANGUAGE: Eng

AB Sustained-release hydrogel suppositories prepared with water-soluble dietary fibers, xanthan gum and locust bean gum, were evaluated as a vehicle for rectal administration of indomethacin (IMC) in rabbits. The drug plasma levels were compared with those after rectal administration of com. suppositories. When the com. suppositories were given to rabbits, the plasma concentration reached the maximum level at 30 min after administration followed by a quick reduction, while no sharp peak of plasma levels was seen with the hydrogel suppositories. In particular, the plasma levels observed with the hydrogel suppositories of 1% (weight/volume) gum concentration were sustained

much longer than those after dosing with the com. suppositories; the mean residence times had higher values without a decrease in the area under the plasma concentration vs. time curves. Histopathol. study showed good biol. safety of the hydrogel suppositories to the rectal mucosa. These results suggested that the IMC hydrogel suppositories prepared with xanthan gum and locust bean gum were a practical rectal preparation with prolonged action and reduced side effects.

L9 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1992:221595 HCAPLUS

DOCUMENT NUMBER:

116:221595

TITLE:

Sustained-release morphine preparation for

rectal administration

INVENTOR(S):

Uekama, Kaneto

PATENT ASSIGNEE(S):

Torii and Co., Ltd., Japan Eur. Pat. Appl., 6 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent English

LANGUAGE:

SOURCE:

11191

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO.

DATE

ar Bremiton No.

EP 476205 A1 19920325 EP 1990-313718 19901214 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE JP 04134030 A2 19920507 JP 1990-253134 19900921 JP 3001242 B2 20000124 CA 1990-2030039 CA 2030039 AA 19920322 19901115 PRIORITY APPLN. INFO.: JP 1990-253134 A 19900921 A sustained-release hollow type suppository for rectal administration comprises a mixture of morphine (I), α-cyclodextrin (II) and a thickener. A hollow type suppository containing I·HCl was prepared using Witespol H-15 base and was filled with 205 mg mixture of I·HCl, II, and xanthan gum . A sustained-release action of suppositories was shown in rabbits.

L9 ANSWER 13 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1992:158938 HCAPLUS

DOCUMENT NUMBER:

116:158938

TITLE:

Mesalazine or other compound-containing pharmaceutical

compositions for rectal

administration

INVENTOR(S):

Frigerio, Giuliano; Brunetti, Gabriele; Giorgetti,

Enzo; Chiodini, Emilia

PATENT ASSIGNEE(S): SOURCE:

Giuliani S.p.A., Italy Eur. Pat. Appl., 11 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
EP 468555	A1 19920129	EP 1991-201485	19910614
EP 468555	B1 19961227		
EP 468555	B2 20010207		
R: AT, BE, CH,	DE, DK, ES, FR, G	B, GR, LI, LU, NL, SE	
CA 2044676	AA 19920128	CA 1991-2044676	19910614
CA 2044676	C 20030401		
AT 146674	E 19970115	AT 1991-201485	19910614
ES 2097787	T3 19970416	ES 1991-201485	19910614
JP 04234315	A2 19920824	JP 1991-180599	19910626
JP 3291301	B2 20020610		
GR 3035634	T3 20010629	GR 2001-400479	20010323
PRIORITY APPLN. INFO.:		IT 1990-21104 A	19900727
AB An active agent, su	ich as an anti-infla	ammatory, an antibiotic,	and a
laxative, is formul	ated in a fluid vel	hicle to generate a foam	on
rectal administrati			
		Thus a restal foam so	ntained

rectal administration and to exhibit a topical medication action at the colon level. Thus, a rectal foam contained mesalazine 10, xanthan gum 0.2, K2S2O5 0.25, di-Na EDTA 0.3, Na benzoate 0.38, polysorbate-20 4, polyoxyethylene isostearate 4, purified water 70.87, Freon 12 6.5, and Freon 114 3.5 %.

L9 ANSWER 14 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1982:533593 HCAPLUS

DOCUMENT NUMBER:

97:133593

TITLE:

Pharmaceutical compositions containing guaiacol or its

derivatives

INVENTOR(S):

Rhodes, John; Evans, Brian Kenneth; Heatley, Richard

Val

PATENT ASSIGNEE(S):

Geistlich, Ed., Soehne A.-G. fuer Chemische Industrie,

Switz.

SOURCE:

Brit. UK Pat. Appl., 4 pp.

CODEN: BAXXDU

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2090134	Α	19820707	GB 1980-41467	19801230
PRIORITY APPLN. INFO.:			GB 1980-41467	19801230
GI				

8,

AB Pharmaceuticals for treatment of heartburn by oral administration or treatment of constipation of the large bowel by rectal administration comprise guaiacol (I) [90-05-1] (15-100 mg/dose) or its derivs., and a mucilage and(or) a silicone antifoam or suppository mass, and optionally alkaline compds. for neutralizing gastric acids. Thus, an aqueous preparation contained I 0.1, alkaline compound [Mg(OH)2 + Al(OH)2]

 ${\bf xanthan~gum}$ 0.8, preservative 0.15, and citric acid 1.0 g, sweetener 10 and H2O to 100 mL.

=> d l11 1-4 ibib abs

L11 ANSWER 1 OF 4 MEDLINE on STN

ACCESSION NUMBER: 2003472782 MEDLINE

DOCUMENT NUMBER: PubMed ID: 12969093

TITLE: No volume effect on retrograde colonic spread of

rectally-administered ropivacaine gel.

AUTHOR: Arlander E; Cederlund T; Mare K

CORPORATE SOURCE: Experimental Medicine, AstraZeneca R&D, Sodertalje,.

Sweden.eva-arlander@astrazeneca.com

SOURCE: Alimentary pharmacology & therapeutics, (2003 Sep 15) 18

(6) 655-60.

Journal code: 8707234. ISSN: 0269-2813.

PUB. COUNTRY: England: United Kingdom

DOCUMENT TYPE: (CLINICAL TRIAL)
Journal; Article; (JOURNAL ARTICLE)

(RANDOMIZED CONTROLLED TRIAL)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200311

ENTRY DATE: Entered STN: 20031011

Last Updated on STN: 20031107 Entered Medline: 20031106

AB BACKGROUND: Rectal administration of enemas, foams and suppositories is the most efficient way to deliver locally acting drugs to the distal colon. Ropivacaine, a long-acting local anaesthetic, was chosen as a candidate for a new rectal treatment of ulcerative colitis. AIM: To determine the colonic spread of a rectal ropivacaine formulation. METHODS: In this randomized, incomplete cross-over study, 12 male volunteers were given 200 mg ropivacaine HCl rectally in 20, 40, 60 and 80 mL hydroxypropyl methylcellulose gel. The viscosity of the gel was 1.1 Pa s. The spread of the radiolabelled (99mTc-labelled diethylenetriaminepenta-acetic acid) formulations was assessed by gamma-scintigraphy. Plasma was collected and analysed for ropivacaine

base. RESULTS: The retrograde spread was limited to the descending colon and the difference between the studied volumes was not statistically significant. Only the 80-mL volume tended to have a larger distribution, although the 20-mL volume showed the same maximal distribution in two subjects. No distinct relationship between volume, retrograde colonic spread and plasma concentrations could be found. Ropivacaine was well tolerated. CONCLUSIONS: Rectal ropivacaine gel in all volumes between 20 and 80 mL can spread up to the descending colon. There was no relationship between either retrograde colonic spread or the administered volume and the ropivacaine plasma concentrations.

L11 ANSWER 2 OF 4

MEDLINE on STN

ACCESSION NUMBER: DOCUMENT NUMBER:

2002296481

PubMed ID: 12036724

TITLE:

Bioavailability and in vitro oesophageal sticking tendency

of hydroxypropyl methylcellulose

capsule formulations and corresponding gelatine capsule

formulations.

COMMENT:

Erratum in: Eur J Pharm Sci 2002 Oct; 17(1-2):105. Pia, Laaksonen [corrected to Laaksonen, Pia]; Janne, Marvola [corrected to Marvola, Janne]; Raimo, Tuominen [corrected to Tuominen, Raimo]; Sari, Eerikainen [corrected to

Eerikainen, Sari]; Martti, Marvola [corrected to Marvola,

Marttil

AUTHOR:

Honkanen Outi; Laaksonen Pia; Marvola Janne; Eerikainen Sari; Tuominen Raimo; Marvola Martti; Pia Laaksonen; Janne Marvola; Sari Eerikainen; Raimo Tuominen; Martti Marvola

CORPORATE SOURCE:

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56, Finland.. outi.honkanen@helsinki.fi

SOURCE:

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Sciences, (2002 Jun) 15 (5) 479-88. Journal code: 9317982. ISSN: 0928-0987.

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200212

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Entered STN: 20020531

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AB The overall aim of the present study was to widen our knowledge about the biopharmaceutical behaviour of novel hydroxypropyl methylcellulose (HPMC) -based two-piece capsules by comparing them with the classic hard gelatine capsules. Firstly, the tendency of the HPMC capsules to stick to isolated porcine oesophageal preparation was evaluated. The force needed to detach the HPMC capsules from the oesophagus was significantly lower than that for the gelatine capsules (P<0.001), which is evidently an advantage of this new dosage form. second aim was to investigate the possibility of preparing sustained-release capsules using different powdered HPMCs as diluents (K100, K4M and K15M) and the effect of the molecular weight of HPMC powder on the in vitro and in vivo behaviour of the capsules. In addition to peroral drug administration also rectal dosing was applied. Two groups of eight healthy volunteers participated in randomised, cross-over, single-dose studies. One group was administered capsules orally and the other rectally. There were no marked differences in the bioavailability properties of either the oral or rectal HPMC capsules containing ibuprofen as model drug as compared with corresponding gelatine capsule formulations. Using different viscosity grades of HPMC powders as diluents it was possible to control the absorption rate of the model drug both from gelatine and HPMC capsules as far as the oral route was

concerned. After rectal administration there were no statistically significant differences between the formulations containing different grades of HPMC powder. Only partial correlation was observed between the results of the bioavailability studies and the in vitro dissolution studies. From a biopharmaceutical point of view these two shell materials can be regarded as interchangeable.

L11 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:864700 HCAPLUS

DOCUMENT NUMBER: 140:210372

TITLE: No volume effect on retrograde colonic spread of

rectally-administered ropivacaine gel Arlander, E.; Cederlund, T.; Mare, K.

AUTHOR(S): Arlander, E.; Cederlund, T.; Mare, K.

CORPORATE SOURCE: Experimental Medicine, AstraZeneca R+D, Soedertaelje,

Swed.

SOURCE: Alimentary Pharmacology and Therapeutics (2003),

18(6), 655-660

CODEN: APTHEN; ISSN: 0269-2813

PUBLISHER: Blackwell Publishing Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

Background: Rectal administration of enemas, foams and suppositories is the most efficient way to deliver locally acting drugs to the distal colon. Ropivacaine, a long-acting local anesthetic, was chosen as a candidate for a new rectal treatment of ulcerative colitis. Aim: To determine the colonic spread of a rectal ropivacaine formulation. Methods: In this randomized, incomplete cross-over study, 12 male volunteers were given 200 mg ropivacaine HCL rectally in 20, 40, 60 and 80 mL hydroxypropyl methylcellulose gel. The viscosity of the gel was 1.1 Pa s. The spread of the radiolabeled (99mTc-labeled diethylenetriaminepenta-acetic acid) formulations was assessed by gamma-scintigraphy. Plasma was collected and analyzed for ropivacaine base. Results: The retrograde spread was limited to the descending colon and the difference between the studied vols. was not statistically significant. Only the 80-mL volume tended to have a larger distribution, although the 20-mL volume showed the same maximal distribution in two subjects. No distinct relationship between volume, retrograde colonic spread and plasma concns. could be found. Ropivacaine was well tolerated. Conclusions: Rectal ropivacaine gel in all vols. between 20 and 80 mL can spread up to the descending colon. There was no relationship between either retrograde colonic spread or the administered volume and the

ropivacaine plasma concns.

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:364645 HCAPLUS

DOCUMENT NUMBER: 127:39669

TITLE: Use of a hard gelatin capsule as a rectal dosage form AUTHOR(S): Eerikainen, S.; Leino, J.; Harjula, M.; Klinge, E.;

Marvola, M.

CORPORATE SOURCE: University Pharmacy, Helsinki, 00510, Finland SOURCE: S.T.P. Pharma Sciences (1996), 6(6), 435-440

CODEN: STSSE5; ISSN: 1157-1489

CODEN: STSSES; ISSN: 1157-148

PUBLISHER: Editions de Sante

DOCUMENT TYPE: Journal LANGUAGE: English

AB The aim of the present study was to determine, using ibuprofen as a model drug, whether hard gelatin capsules were of value as rectal dosage forms in man. The effects of training in administration of the capsules and use of liquid paraffin as a glidant were also studied. The influences of different diluents in the capsule, i.e., lactose, dicalcium phosphate and hydroxypropyl methylcellulose, on the bioavailability of ibuprofen were determined The results showed that ibuprofen is adequately

absorbed after rectal administration via hard gelatin capsules. Training in administration and use of a glidant to facilitate rectal administration nonetheless played an important role. The type of diluent used markedly affected bioavailability. Capsules containing lactose behaved like immediate release formulations. Those containing hydroxypropyl Me cellulose behaved like prolonged release products.

REFERENCE COUNT:

10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT